2-Hexanol, 2-methyl-3,3,4,4,5,5,6,6-octafluoro-

Inchi: InChI=1S/C7H8F8O/c1-4(2,16)6(12,13)7(14,15)5(10,11)3(8)9/h3,16H,1-2H3
InchiKey: RTFCOQNRRQBMIT-UHFFFAOYSA-N
Formula: C7H8F8O
SMILES: CC(C)(O)C(F)(F)C(F)(F)C(F)(F)C(F)F
Mol. weight [g/mol]: 260.12
CAS: 2673-15-6

Physical Properties

Property code	Value	Unit	Source
gf	-1678.32	kJ/mol	Joback Method
hf	-1949.20	kJ/mol	Joback Method
hfus	9.43	kJ/mol	Joback Method
hvap	35.75	kJ/mol	Joback Method
log10ws	-3.38		Crippen Method
logp	2.928		Crippen Method
mcvol	129.520	ml/mol	McGowan Method
pc	2324.78	kPa	Joback Method
tb	432.54	K	Joback Method
tc	572.75	K	Joback Method
tf	228.87	K	Joback Method
vc	0.540	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	323.31	J/mol×K	432.54	Joback Method
cpg	334.46	J/mol×K	455.91	Joback Method
cpg	344.91	J/mol×K	479.28	Joback Method
cpg	354.69	J/mol×K	502.64	Joback Method
cpg	363.83	J/mol×K	526.01	Joback Method
cpg	372.36	J/mol×K	549.38	Joback Method
cpg	380.32	J/mol×K	572.75	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2673156&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume